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DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1985
SUBMITTED TO CONGRESS

FEBRUARY 1984



AIRCRAFT

PROCUREMENT

PROGRAMS

AIRCRAFT

MISSILES

WEAPONS & TRACKED COMBAT VEHICLES

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) In justification of programs requested, this document, in separate volume for each of the five Procurement Appropriations, and one separate volume for Construction Programs, provides backup data for the Army Budget submission for FY 1985. Included are Summaries of Requirements, Program and Financing State- ments and Selected Data Sheets. (These volumes are unclassified).		

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DEPARTMENT OF THE ARMY
AIRCRAFT PROCUREMENT, ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1985, 1986

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1-1 February 1984

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AIRCRAFT PROCUREMENT, ARMY

Section 1

Budget Appendix Extract

Language

Program and Financing Schedule

Object Classification Schedule

1-1 February 1984

APPROPRIATION LANGUAGE

For construction, procurement, production, modification, and modernization of aircraft, equipment, including ordnance, ground handling equipment, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, without regard to Section 4774, Title 10, United States Code, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title as required by Section 355, Revised Statutes, as amended; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$3,214,048,000, of which \$11,700,000 shall be available only for procurement of (1) C-12 Cargo Aircraft, \$33,200,000 shall be available for modification of AH-1 helicopters for the Army National Guard and \$5,000,000 shall be available for procurement of Joint Surveillance Target Attack Radar Data Links, \$4,008,300 to remain available for obligation until September 30, 1987 (10 U.S.C. 2353, 2361, 3012, 4531-32; Department of Defense Appropriation Act, 1984; additional authorizing legislation to be proposed). (2)

EXPLANATION OF LANGUAGE CHANGES

- (1) To change the amount of appropriation for FY 1984.
- (2) To change the obligation expiration date for the FY 1985 program.

1-2 February 1984

2031a Aircraft Procurement, Army
Program and Financing (in thousands of dollars)

FYF SUMMARY

Identification code	Budget Plan (amounts for actions programmed)			Obligations		
	1983 actual	1984 est	1985 est	1983 actual	1984 est	1985 est
Program by activities						
Direct Program						
1 Aircraft	1,504,222	1,813,700	2,184,600	1,380,795	1,693,071	2,139,131
2 Modification of aircraft	382,840	865,530	840,800	756,709	644,816	814,109
3 Spares and repair parts	451,100	583,600	533,400	466,100	658,736	614,578
4 Support equipment and facilities	158,510	199,418	343,500	361,989	203,750	318,567
Total direct program	2,497,672	3,273,248	4,058,300	2,345,593	3,202,173	3,886,385
Reimbursable program	120,404	83,800	88,900	87,773	33,918	90,243
10 0001 Total Obligations	2,618,276	3,357,048	4,147,200	2,433,366	3,236,091	3,976,628
Financing						
Offsetting collections from:						
11 0001 Federal funds(-)	-68,814	56,300	-48,800	-61,267	-56,300	-48,800
12 0001 Trust funds(-)	-51,390	-27,500	-49,100	-35,217	-27,500	-49,100
13 0001 Non-federal sources(-)				45		
14 0001 Recovery of prior year obligations(-)				-68,339		
15 4002 Unobligated balance available, SOY						
16 4002 For completion of prior year budget plan				419,348	-56,183	-897,140
17 4002 Reprogramming from or to prior year budget	9,532	15,000				
18 4002 Net unobligated balance transferred	-49,604	-15,000		-49,604	-15,000	
19 4002 Unobligated balance available, EOY						
20 4002 For completion of prior year budget plan				661,183	647,140	824,712
21 0001 Unobligated balance lapsing	25,072			25,072		
19 0001 Budget authority	2,482,872	3,273,248	4,008,300	2,482,872	3,273,248	4,008,300
Budget authority						
10 0001 Appropriation	2,506,572	3,214,040	4,008,300	2,506,572	3,214,040	4,008,300
10 0002 Reduction pursuant to P.L. 97-377	-17,500			-17,500		
11 0001 Transferred to other accounts	-6,200			-5,200		
12 0001 Transferred from other accounts		59,200			55,200	
13 0001 Appropriation (adjusted)	2,482,872	3,273,248	4,008,300	2,482,872	3,273,248	4,008,300
Relation of obligations to outlays						
11 0001 Obligations incurred, net				2,333,907	3,252,291	3,880,728
12 0001 Obligated balance, start of year				2,028,442	2,573,969	3,643,780
13 0001 Obligated balance, end of year				-2,573,969	-3,643,780	-4,915,408
14 0001 Adjustments in expired accounts				4,012		
15 0001 Adjustments in unexpired accounts				-68,339		
16 0001 Outlays				1,724,032	1,582,500	2,809,100

1-3 February 1984

2031a Aircraft Procurement, Army
Object Classification (in Thousands of dollars)

Identification code	21-2031-----	1983 actual	1984 est	1985 est
Direct obligations				
11 5004	Other	140,735	192,128	233,183
11 6001	Supplies and materials	375,295	512,341	621,821
11 1001	Equipment	1,829,563	2,497,704	3,031,361
19 9001	Total direct obligations	2,345,593	3,202,173	3,886,365
Reimbursable Obligations				
22 5004	Other	5,081	8,035	8,415
22 6001	Supplies and materials	16,839	21,427	14,439
23 1001	Equipment	66,053	104,456	70,389
24 9001	Total reimbursable obligations	87,973	133,918	93,243
30 9901	Total Obligations	2,433,566	3,336,091	3,979,608

1-4 February 1984

2031a Aircraft Procurement, Army
Program and Financing (in Thousands of dollars)

FISCAL YEAR 1981

Classification code	21 2031	Budget Plan (amounts for actions programmed)			Obligations		
		1983 actual	1984 est	1985 est	1983 actual	1984 est	1985 es
Program by activities							
Direct Program							
1					12,940		
2					27,424		
3					52,615		
4					13,698		
Total direct program					106,677		
Reimbursable program					4,891		
10 0001		Total Obligations			111,568		
Financing							
Offsetting collections from							
1 0001		Adjustment to prior year federal fund or			1,415		
1 0001		Adjustment to prior year trust fund order			858		
1 0001		Adjustment to non-federal sources			17		
1 0001		Recoveries of prior year obligations (-)			-40,041		
Unobligated balance available, SOY							
1 1002		For completion of prior year budget plans			98,868		
1 1002		Reprogramming from or to prior year budget plan			-25,072		
15 0001		Unobligated balance lapsing			25,072		
19 0001		Budget authority					

1-5 February 1984

2031a Aircraft Procurement, Army
Program and Financing (in thousands of dollars)

FISCAL YEAR 1982

Identification code	21-2031-----	Budget Plan (amounts for actions programmed)			Obligations		
		1983 actual	1984 est	1985 est	1983 actual	1984 est	1985 est
Program by activities							
Direct Program							
1	Aircraft				27,249	75,829	
2	Modification of aircraft				38,367	20,279	
3	Spares and repair parts				83,569	49,389	
4	Support equipment and facilities				22,684	8,285	
Total direct program					171,869	153,782	
Reimbursable program					21,797	32,757	
10 0001	Total Obligations				193,666	186,039	
Financing							
Offsetting collections from							
11 0001	Adjustment to prior year federal fund or				6,312		
13 0001	Adjustment to prior year trust fund orde				12,315		
14 0001	Adjustment to non federal sources				28		
17 0001	Recoveries of prior year obligations(-)				-26,296		
Unobligated balance available, SOY							
21 4002	For completion of prior year budget plans				-320,458	-186,039	
23 4007	Reprogramming from or to prior year budget pl	49,604					
22 4001	Net unobligated balance transferred	-49,604			-49,604		
Unobligated balance available, EOY							
24 4002	For completion of prior year budget plans				186,039		
19 0001	Budget authority						

1-6 February 1984

2031a Aircraft Procurement, Army
Program and Financing (in Thousands of dollars)

FISCAL YEAR 1983

Classification code	21-2031	Budget Plan (amounts for actions programmed)		Obligations			
		1983 actual	1984 est	1985 est	1983 actual	1984 est 1985 est	
Program by activities							
Direct Program							
1	Aircraft	1,504,222			1,320,606	66,487 117,129	
2	Modification of aircraft	383,840			290,918	59,480 33,442	
3	Spares and repair parts	451,300			329,916	98,819 22,565	
4	Support equipment and facilities	158,510			125,607	24,978 7,925	
Total direct program		2,497,872			2,067,047	249,764 181,061	
Reimbursable program		120,404			61,085	51,708 7,611	
10 0001	Total Obligations	2,618,276			2,128,132	301,472 188,672	
Financing							
Offsetting collections from							
11 0001	Federal funds()	-69,014			-69,014		
11 0001	Trust funds()	-51,390			-51,390		
Unobligated balance available, SOY							
1 1002	For completion of prior year budget plans					-475,144 -188,672	
1 4007	Reprogramming from or to prior year budget pl	-15,000	15,000				
2 1001	Net unobligated balance transferred		-15,000			15,000	
Unobligated balance available, EOY							
1 1002	For completion of prior year budget plans				475,144	188,672	
09 0001	Budget authority	2,482,872			2,482,872		
Budget authority							
10 0001	Appropriation	2,506,572			2,506,572		
10 0002	Reduction pursuant to P L 97-377	-17,500			-17,500		
1 0001	Transferred to other accounts()	-6,200			-6,200		
11 0001	Appropriation (adjusted)	2,482,872			2,482,872		

1-7 February 1984

2031a Aircraft Procurement, Army
Program and Financing (in Thousands of dollars)

FISCAL YEAR 1984

Identification code	21-2031-----	Budget Plan (amounts for actions programmed)			Obligations		
		1983 actual	1984 est	1985 es.	1983 actual	1984 est	1985 est
Program by activities							
	Direct Program						
	1. Aircraft		1,813,700			1,550,755	154,168
	2. Modification of aircraft		666,530			569,857	56,653
	3. Spares and repair parts		593,600			507,528	50,456
	4. Support equipment and facilities		199,418			170,487	16,949
	Total direct program		3,273,248			2,798,627	278,226
	Reimbursable program		83,800			49,953	25,467
10 0001	Total Obligations		3,357,048			2,848,580	303,693
Financing:							
	Offsetting collections from						
11 0001	Federal funds(-)		-56,300			-56,300	
13 0001	Trust funds(-)		-27,500			-27,500	
	Unobligated balance available, SOY						
21 4002	For completion of prior year budget plans						-508,468
	Unobligated balance available, EOY						
24 4002	For completion of prior year budget plans					508,468	204,775
39 0001	Budget authority		3,273,248			3,273,248	
	Budget authority						
40 0001	Appropriation		3,214,048			3,214,048	
42 0001	Transferred from other accounts		59,200			59,200	
43 0001	Appropriation (adjusted)		3,273,248			3,273,248	

1-8 February 1984

2031a Aircraft Procurement, Army
Program and Financing (in thousands of dollars)

FISCAL YEAR 1985

Identification code		Budget Plan (amounts for actions programmed)			Obligations		
		1983 actual	1984 est	1985 est	1983 actual	1984 est	1985 est
	Program by activities						
	Direct Program						
	1 Aircraft			2,164,600			1,667,834
	2 Modification of aircraft			848,600			724,014
	3 Spares and repair parts			633,400			541,557
	4 Support equipment and facilities			343,500			293,693
	Total direct program			4,008,300			3,427,098
	Reimbursable program			95,900			57,165
10 0001	Total Obligations			4,104,200			3,484,263
	Financing						
1 0001	Offsetting collections from Federal funds(-)			-46,800			-46,800
11 0001	Trust funds(-)			-49,100			-49,100
	Unobligated balance available, EOY						
11 0002	For completion of prior year budget plans						619,937
10 0001	Budget Authority (Appropriation)			4,008,300			4,008,300

1-9 February 1984

AIRCRAFT PROCUREMENT, ARMY

Section 2

Budget Activity Justifications

Activity 1 - Aircraft

Activity 2 - Modification

Activity 3 - Spares and Repair Parts

Activity 4 - Support Equipment and Facilities

1-10 February 1984

Department of the Army Annual Budget Estimates JUSTIFICATION	Appropriation Aircraft Procurement, Army			FY 1985 Budget
Program or Budget Project Account	(Thousands of Dollars)			
Budget Program - Activity 1, Aircraft.	Actual	Estimate	Estimate	Estimate
	FY 1983	FY 1984	FY 1985	FY 1986
Direct Obligation or Direct Budget Plan	1,504,222	1,813,700	2,184,600	1,835,000
Direct Obligation				

Section 1 - PURPOSE AND SCOPE

Provides for procurement and manufacture of airplanes, helicopters, and associated aircraft armament and avionics equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(\$ in Thousands)	
FY 1985	FY 1986
\$79,300	0

RC-12D GUARDRAIL Reconnaissance Airplane - (P-1 Line Item 3).

The FY 1985 request includes \$79.3 million for procurement of 9 RC-12D GUARDRAIL Reconnaissance Airplanes and a ground processing center for the fourth Improved GUARDRAIL V system. This Improved GUARDRAIL V system will provide the tactical commander with a capability to intercept, locate and classify target signals.

1-11 February 1984

(\$ in Thousands)	
<u>FY 1985</u>	<u>FY 1986</u>
\$110,000	0

CH-47 CHINOOK Helicopter - (P-1 Line Item 5)

A total of \$110.0 million is requested for the procurement of 11 CH-47C helicopters in FY 1985. The CH-47 is the Army's only cargo helicopter. The current inventory falls well below the required quantity of aircraft. Primary missions include movement of ammunition, repair parts, petroleum, tactical movement of artillery, troops and special weapons on the battlefield.

(\$ in Thousands)	
<u>FY 1985</u>	<u>FY 1986</u>
\$200,300	

EH-60A QUICK FIX Electronic Helicopter (Multiyear Procurement) - (P-1 Line Items 6 and 7).

The FY 1985 request includes \$173.1 million for the procurement of 18 EH-60A QUICK FIX helicopters. Additionally, \$27.2 million is requested for advance procurement of long leadtime engine and airframe components required to support the FY 1986 production. QUICK FIX utilizes the BLACK HAWK airframe to employ on-board Electronic Warfare (EW) equipment designed to identify, locate, listen, and disrupt enemy command and control communications.

1-12 February 1984

(\$ in Thousands)	
FY 1985	FY 1986
\$1,290,200	\$1,150,300

AH-64 APACHE Attack Helicopter - (P-1 Line Items 8 and 9).

In FY 1985, \$1290.2 million is requested for the procurement of 144 AH-64 APACHE attack helicopters. These funds include \$91.0 million for advance procurement of long leadtime items required to support FY 1986 production. The APACHE is a twin-engine, two-place, fully integrated anti-armor weapon system capable of destroying tanks and other armored vehicles under day, night and adverse weather conditions. The aircraft employs the HELLFIRE (laser seeking) anti-tank missile and 30mm gun. Target acquisition is accomplished by the Target Acquisition and Designation Sight (TADS) which enables extremely accurate fires with high first round hit probability. Night navigation is provided by the Pilots Night Vision Sensor (PNVS). The mobility, flexibility, and rapid response of the AH-64 will provide the balance required to help counter the Warsaw Pact threat and allow it to be a key member of the Rapid Deployment Force (RDF). In FY 1986, \$1150.3 million is requested for the procurement of 144 AH-64 APACHE Attack Helicopters. These funds include \$41.6 million for advance procurement of long leadtime engine, transmission, and mission equipment components required to support the FY 1987 production.

(\$ in Thousands)	
FY 1985	FY 1986
\$504,800	\$496,500

UH-60A BLACK HAWK (Multiyear Procurement) - (P-1 Line Items 10 and 11).

In FY 1985, \$504.8 million is requested for the procurement of 78 UH-60A BLACK HAWK helicopters. These funds include \$171.8 million for advance procurement of long leadtime items and engines required to support the follow-on multiyear procurement (FY1985 - 1987) of airframes. The BLACK HAWK will modernize the Army's utility helicopter fleet. It will enhance tactical mobility with increased speed, lifting capacity, range, reliability, availability, maintainability, and survivability at reduced overall operating costs. This utility helicopter is the Army's first true squad carrying helicopter and is powered by two T-700 engines. The Army initiated Multiyear Procurement (MYP) for the BLACK HAWK engine in FY 1983. The Multiyear Procurement of the T-700 engine will save an estimated \$62.8 million in FY 1985. In addition, it is estimated that various Productivity Enhancements on the Crashworthy Crew Seat will save an additional \$5.0 million in FY 1985. A total of \$496.5 million is requested in FY 1986 for procurement of 78 UH-60A BLACK HAWK helicopters. Included is \$161.1 million for advance procurement of long leadtime engine and airframe components required to support FY 1987 production. Multiyear Procurement of the BLACK HAWK engine is requested in FY 1986 as a follow-on to the highly successful original MYP (FY 1983 - 1985).

Department of the Army Annual Budget Estimates JUSTIFICATION	Appropriation Aircraft Procurement, Army			FY 1985
Program or Budget Project Account	(Thousands of Dollars)			Budget
Budget Program - Activity 2, Aircraft Modifications.	Actual FY 1983	Estimate FY 1984	Estimate FY 1985	Estimate FY 1986
Direct Obligation or Direct Budget Plan	383,840	666,530	846,800	995,300
Direct Obligation				

Section 1 - PURPOSE AND SCOPE

Provides for modification of items and upgrade of equipment procured by the Aircraft Procurement, Army appropriation, including modification kits. It excludes installation unless the item is furnished to a manufacturer, who provides parts and labor under a single contract (excluding normal GFE). This results in an end item reconfigured to a new series designation or new operational capability.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(\$ in Thousands)
 FY 1985 FY 1986
 \$21,800 \$29,400

OV-1 Mohawk Surveillance Airplane - (P-1 Line Item 12).

The \$21.8 million requested in FY 1985 is for modernization of the OV-1B aircraft to a standard OV-1D configuration and other required modifications. The other modifications include the procurement and installation of continuous wave (CW) radar jammers and a stall warning system. FY 1986 funding modifies additional aircraft and procures the missile detector system.

1-14 February 1984

(\$ in Thousands)	
FY 1985	FY 1986
\$7,800	\$500

RC-12D Reconnaissance Airplane - (P-1 Line Item 13).

The \$7.8 million requested in FY 1985 is for RC-12D GUARDRAIL modifications. This funding continues procurement of the continuous wave radar jammer and begins procurement of the missile detector system and radar jammer. FY 1986 funding permits completion of the installation of the continuous wave radar jammer.

(\$ in Thousands)	
FY 1985	FY 1986
\$6,500	\$500

RV-1D Airplane, Reconnaissance - (P-1 Line Item 14).

The \$6.5 million requested in FY 1985 is for modifications of the RV-1D aircraft. This funding will procure and install the continuous wave radar jammer and the missile detector system. FY 1986 funding completes the installation of the continuous wave radar jammer.

(\$ in Thousands)	
FY 1985	FY 1986
\$45,900	\$88,100

AH-1 COBRA-TOW Attack Helicopter - (P-1 Line Item 15).

The \$19.0 million requested in FY 1985 is for the COBRA Night Program (C-Nite). This program will give the COBRA a night shooting capability. An additional \$26.9 million is requested for the COBRA Fleet Life Extension Program (C-FLEX). A total of \$88.1 million is requested in FY 1986 for both the C-FLEX and C-NITE programs.

(\$ in Thousands)	
FY 1985	FY 1986
\$3,000	\$2,900

AH-1 Training Device (HITMORE) - (P-1 Line Item 16).

A total of \$3.0 million is requested in FY 1985 and \$2.9 million in FY 1986 for the procurement of 107 helicopter installed television recorders and 110 backup HITMORE device mounts. The HITMORE device is a TOW gunnery trainer to be installed on AH-1 aircraft. The HITMORE devices will be issued to locations not receiving the AH-64 combat mission simulator. The 110 backup mounts provide backup helicopters with HITMORE capability when the primary AH-1 HITMORE is in maintenance.

1-15 February 1984

(\$ in Thousands)	
FY 1985	FY 1986
\$446,900	\$438,200

CH-47 CHINOOK Cargo Helicopter (Multiyear Procurement) - (P-1 Line Item 17)

A total of \$446.9 million is requested in FY 1985 primarily for continuation of the CH-47D modernization program and for fleet modifications to convert the T-55-L-11D engine to the T-55-L-712 configuration. The CH-47 Modernization program includes improvements to the current CH-47A, B, C fleet to modernize it to the greatly improved CH-47D configuration. Modifications include new fiberglass rotor blades; new engines, transmission and drive system; modularized hydraulics; electrical system; advanced flight control system; triple hook cargo system and an auxiliary power unit. These improvements increase the aircraft capability for lift and endurance and extends the useful life of the fleet beyond the year 2000. The features greatly enhance reliability, maintainability, productivity, survivability and safety of the Active Army's only medium-lift cargo helicopter. In FY 1986, \$438.2 million is requested for continuation of the fleet modernization to the improved CH-47D configuration. Funding also permits the continuation of the modification program to convert the T-55-L-11D engine to the T-55-L-712 configuration. This program is a multiyear procurement candidate beginning in FY 1985. Upon completion of negotiations, the multiyear decision will be made and appropriate notification will be furnished to the Congress.

(\$ in Thousands)	
FY 1985	FY 1986
\$2,200	0

EH-1, Helicopter, Electronic - (P-1 Line Item 20).

A total of \$2.2 million is requested in FY 1985 for EH-1 Quick Fix modifications. This funding will procure missile detector systems for the Quick Fix aircraft.

1-16 February 1984

(\$ in Thousands)	
<u>FY 1985</u>	<u>FY 1986</u>
\$4,000	\$15,500

OH-58 Observation Helicopter - (P-1 Line Item 21).

The \$4.0 million requested in FY 1985 is for engine power droop kits for OH-58A/C helicopters. This modification is a safety related product improvement involving a new engine fuel control and other minor engine hardware changes which will bring the OH-58A/C engine up to commercial standards and substantially reduce the incidence of sudden reduction in engine power during flight. In FY 1986 \$15.5 million is requested to complete procurement of power droop kits for the OH-58 fleet and to start procurement of kits for a more powerful tail rotor and gear box for the OH-58C to enhance safety and improve operational capability during Nap-of-the-Earth flight.

(\$ in Thousands)	
<u>FY 1985</u>	<u>FY 1986</u>
\$1,900	\$29,500

UH-1 Mods - (P-1 Line Item 22).

A total of \$1.9 million is requested in FY 1985 to initiate avionics replacement for the UH-1 aircraft fleet. The UH-1 has reached an age where most of the avionics have become logistically unsupportable and are no longer in production. For the UH-1 to continue to be used effectively and efficiently, an avionics replacement program must be initiated in FY 1985. Funds requested in FY 1986 will permit continuation of this program.

(\$ in Thousands)	
<u>FY 1985</u>	<u>FY 1986</u>
\$5,900	\$23,000

UH-60A Mods - P-1 Line Item 23).

A total of \$5.9 and \$23.0 million is requested in FY 1985 and FY 1986, respectively, to begin retrofit of fielded UH-60 BLACK HAWKS with provisions to accommodate the External Stores Support System (ESSS) which provides the Army with a self-deployment and extended range capability in support of the Rapid Deployment Force mission. Other improvements include the installation of the Hover Infrared Suppressor System, Wire Strike Protection System and Cockpit Night Vision Goggle compatibility modification. The funding in FY 1985 is primarily for ESSS, whereas, FY 1986 funding will continue the ESSS retrofit and initiate the other improvements mentioned above.

1-17 February 1984

(\$ in Thousands)	
FY 1985	FY 1986
\$217,300	\$220,100

Army Helicopter Improvement Program (AHIP) - (P-1 Line Item 24 and 25).

A total of \$217.3 million is requested in FY 1985 to exercise the second option of an existing contract to modify 44 OH-58A airframes to the OH-58D (AHIP) configuration. This request also includes funds for advance procurement (\$60.1 million) for modification of 56 OH-58A airframes in FY 1986. Modification of the OH-58A includes the addition of a Mast-Mounted Sight (MMS) to achieve a day, night, adverse weather target acquisition and designation capability, an integrated cockpit with improved communications and navigation equipment, a more powerful engine, redesign of the main transmission and tail rotor drive train, and the installation of a composite, four bladed main rotor system and composite tail rotor. Advance procurement funding permits the procurement of long leadtime transmission components, gearboxes, main rotor masts, material for main rotor blades, electrical components, castings, forgings, bearings, hydraulic actuators, sensors, microelectronic parts, engines, and avionics. The AHIP will provide commanders with a significantly improved scout helicopter to conduct command and control, reconnaissance, surveillance, security and target acquisition/designation functions under day, night, and adverse weather conditions. In FY 1986, \$220.1 million is requested to exercise a third option of the contract to modify 56 OH-58A airframes to the OH-58D (AHIP) configuration, and advance procurement (\$96.3 million) for modification of 92 OH-58A airframes in FY 1987.

(\$ in Thousands)	
FY 1985	FY 1986
\$7,000	\$7,800

Airborne Avionics - (P-1 Line Item 26).

The \$7.0 million requested in FY 1985 is for airborne avionics modifications, including Solid State Radar, upgrade of the APX-100, and RT-1354 Front Panels. In FY 1986, \$7.8 million continues these product improvement programs.

1-18 February 1984

(\$ in Thousands)	
FY 1985	FY 1986
\$17,000	\$122,400

Joint Surveillance Target Attack Radar - (P-1 Line Item 27).

A total of \$17.0 million is requested in FY 1985 to fund long lead items associated with the JOINT STARS ground stations. These ground stations will provide real time intelligence processing and reporting of radar signals collected by the OV-10 aircraft. The funding in FY 1986 supports the initial procurement of Airborne Radars and Data Link systems.

(\$ in Thousands)	
FY 1985	FY 1986
\$100	\$100

Modifications less than \$900 Thousand - (P-1 Line Item 28).

The \$.1 million requested in FY 1985 is for various modification requirements.

(\$ in Thousands)	
FY 1985	FY 1986
\$59,500	\$17,300

Aircraft 9WW - (P-1 Line Item 29).

A total of \$59.5 million is requested in FY 1985 and \$17.3 million in FY 1986 for specialized aviation of a classified nature.

1-19 February 1984

Department of the Army Annual Budget Estimates JUSTIFICATION	Appropriation Aircraft Procurement, Army			FY 1985
				Budget
Program or Budget Project Account	(Thousands of Dollars)			
Budget Program - Activity 3, Spares and Repair Parts	Actual FY 1983	Estimate FY 1984	Estimate FY 1985	Estimate FY 1986
Direct Obligation or Direct Budget Plan	451,300	593,600	633,400	719,000
Direct Obligation				

Section 1 - PURPOSE AND SCOPE

Provides for procurement of depot repairable spares and repair parts including provisioning (initial issue), replenishment, mobilization reserve, and avionics spares.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(# In Thousands)

FY 1985	FY 1986
\$633,400	\$719,000

Spares and Repair Parts - (P-1 Line Item 30).

Initial Provisioning: A total of \$318.0 million is requested in FY 1985 and \$278.5 million in FY 1986 to procure spares and repair parts in support of initial fielding of new or modified systems. These funds also support the procurement of aircraft engines and engine modules over the life cycle of the aircraft. Spares are an integral part of the development of any aircraft system (new procurement or modification). Initial spares are ordered against the major item development and procurement schedule and must meet required deliveries to preclude grounding the system for lack of spare parts. The initial spares support period normally extends until sufficient demand experience has been accumulated to permit change-over to replenishment procedures. Aircraft end items supported in FY 1985 are: (\$ millions)

AH-64	\$186.0	OV-1	\$2.8	Safety-of-Flight	\$1.9
UH-60A	16.3	RV-1	.7	Ground Support Equipment	.3
EH-60A	11.9	AH-1S	4.6	Night Vision Goggles	3.2
HC-12D	10.0	CH-47	51.0		
EH-1	1.0	AT-19	26.7		

1-20 February 1984

Replenishment Spares: A total of \$315.4 million is requested in FY 1985 and \$440.5 million in FY 1986. The funding in FY 1985 includes \$212.1 million for peacetime requirements and \$103.3 million for war reserves. The peacetime replenishment spares support the Army's flying hour program, depot and pipeline requirements for the life of the system. War reserve spares provide initial combat support until resupply can be established. The replenishment spares (peacetime) requirement supports the following systems:

UH-1	\$48.9	OH-58/OH-6	\$6.3
AH-1	32.5	OV-1/RV-1	3.4
UH-60	59.8	U-8/U-21	1.1
CH-47	12.5	Communications & Electronics	38.3
CH-54	1.4	Ground Support Equip & Misc	7.9

1-21 February 1984

Department of the Army Annual Budget Estimates		Appropriation Aircraft Procurement, Army		FY 1985
JUSTIFICATION				Budg
Program or Budget Project Account		(Thousands of Dollars)		
Budget Program - Activity 4, Support Equipment		Actual	Estimate	Estimate
and Facilities		FY 1983	FY 1984	FY 1985
Direct Obligation or Direct Budget Plan				FY 1986
Direct Obligation				
		158,510	199,418	343,500
				299,200

Section 1 - PURPOSE AND SCOPE

Provides for avionics support equipment including communication equipment and night vision goggles; for common ground equipment including tool sets, shop sets and components thereof, ground handling/servicing equipment, special test and diagnostic equipment, flight simulators and training devices; for industrial facilities including Provision of Industrial Facilities (PIF), Depot Maintenance Plant Equipment (DMPE), and war consumables including 2.75 inch rocket lightweight launchers.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(\$ in Thousands)

FY 1985	FY 1986
51,600	56,600

Avionics Support Equipment - (P-1 Line Item 31).

In FY 1985 \$51.6 million is requested as follows: \$24.1 million for other communication equipment and \$27.5 million for 1200 aviation night vision goggles. In FY 1986 \$56.6 million is requested as follows: \$29.5 million for other communication equipment and \$27.1 million for 1200 aviation night vision goggles.

1-22 February 1984

(\$ in Thousands)	
<u>FY 1985</u>	<u>FY 1986</u>
\$31,900	\$39,400

Common Ground Equipment - (P-1 Line Item 32).

A total of \$31.9 million is requested in FY 1985 and \$39.4 million in FY 1986 for procurement of Sets, Kits, and Outfits; Aviation Ground Support Equipment; Aviation Life Support Equipment and individual items costing less than \$.9 million. Sets, Kits, and Outfits are required to fill shortages, replace obsolete equipment and to continue implementation of the three level maintenance concept. Aviation Ground Support Equipment provides for the acquisition of aircraft ground power units, vibrex analyzers and other items costing less than \$.9 million.

(\$ in Thousands)

<u>FY 1985</u>	<u>FY 1986</u>
\$8,900	\$8,900

Air Traffic Control - (P-1 Line Item 33).

The \$8.9 million requested in FY 1985 is allocated as follows: \$5.2 million for tactical air traffic control towers and \$3.0 million for tactical ground control approach radars for the National Guard; \$0.7 million to install initial microwave landing systems at the Aviation School. In FY 1986 \$8.9 is requested as follows: \$5.0 million for tactical towers and \$2.8 million for tactical ground control approach radars to complete National Guard requirements. \$1.1 million is for tactical radio beacons.

1-23 February 1984

(\$ in Thousands)	
FY 1985	FY 1986
\$175,200	\$140,700

Synthetic Flight Simulator Program - (P-1 Line Item 34).

The \$175.2 million requested in FY 1985 is for the procurement of aviation flight simulators. These funds are requested to procure the last two AH-1S flight/weapons simulators to provide training for Reserve and National Guard units (\$34.8 million). These two simulators are to be located at Regional Training Centers in Pennsylvania and Arizona. The request also includes funds to convert one CH-47C model to D model simulator (\$6.0 million). This conversion continues a three year conventional multiyear program which began in FY 1984. Four UH-60 flight simulators will also be procured (\$71.0 million) in FY 1985 as part of a four year conventional multiyear procurement. Two AH-64 Combat Mission Simulators will also be procured (\$63.4 million) and is a continuation of a conventional multiyear procurement begun in FY 1984.

In FY 1986 \$140.7 million is requested as follows: The third year option of a four year conventional multiyear program will be exercised to purchase four UH-60 simulators (\$70.7 million). Three AH-64 Combat Mission Simulators are planned to be procured (\$70.0 million).

(\$ in Thousands)	
FY 1985	FY 1986
\$72,300	\$47,000

Industrial Facilities - (P-1 Line Item 35).

The \$72.3 million requested in FY 1985 is for support of the Army Aviation Program Industrial Facilities. It includes \$10.4 million for rehabilitation and provision of industrial equipment, and \$61.9 million for depot maintenance plant equipment (DMPE). The \$47.0 million requested in FY 1986 for support of Army Aviation Program Industrial Facilities includes \$10.7 million for rehabilitation and provision of industrial equipment, and \$36.3 million for depot maintenance plant equipment (DMPE). Section 8 breaks out these costs for both FY 1985 and FY 1986.

1-24 February 1984

(\$ in Thousands)
FY 1985 FY 1986
\$3,600 \$6,600

War Consumables - (P-1 Line Item 37).

A total of \$3.6 million requested in FY 1985 and \$6.6 million in FY 1986 is for 7 tube and 19 tube 2.75 inch Lightweight Rocket launchers to be used on the AH-1 COBRA/TOW and AH-64 attack helicopters. These launchers are required in order to fire the new family of 2.75 inch rockets with remote set fuzing options.

1-25 February 1984

AIRCRAFT PROCUREMENT, ARMY

Section 3

Comparison of Program Requirements and Financing

Comparison of FY 1984 program requirements as reflected in FY 1984 budget with FY 1984 program requirements as shown in FY 1985 budget.

Comparison in FY 1984 financing as reflected in FY 1984 budget with FY 1984 financing as shown in FY 1985 budget.

Comparison of FY 1983 program requirements as reflected in FY 1984 budget with FY 1983 program requirements as shown in FY 1985 budget.

Comparison of FY 1983 financing as reflected in FY 1984 budget with FY 1983 financing as shown in FY 1985 budget.

1-26 February 1984

COMPARISON OF FY 1983 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1984 BUDGET WITH
FY 1983 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	Total Program Requirements Per FY 84 Budget	Program Requirements Per FY 1985 Budget	Increase (+) or Decrease (-)
Aircraft Procurement, Army			
Activity 1 - Aircraft	1,506,900	1,504,222	- 2,678
Activity 2 - Modification of Aircraft	380,372	383,840	+ 3,468
Activity 3 - Spares and Repair Parts	448,200	451,300	+ 3,100
Activity 4 - Support Equipment and Facilities	151,600	158,510	+ 6,910
TOTAL	2,487,072	2,497,872	+10,800

Explanation by Activity

Activity 1 - Aircraft - Net decrease is due to decrease to UH-60 (-\$4,058) and EH-60A (-\$4,090), offset by increases to RC-12D (+\$3,143) and OV-1 (+\$2,327).

Activity 2 - Modification of Aircraft - Net increase due to the following increases - RV-1 (+\$800), EH-1 (+\$700), UH-60 (+\$1,800), Mods under \$900K (+\$1,468), 9WW (+\$15,000); offset by the following decreases - OV-1 (-\$3,900), RC-12 (-\$100), AH-1 (-\$7,600), CH-47 (-\$200), C-12 (-\$200), OH-58 (-\$1,800), Airborne Avionics (-\$2,500).

Activity 3 - Spares and Repair Parts - Net increase is due to below threshold reprogramming action to increase replenishment spares (+\$2,100) and initial provisioning (+\$1,000).

Activity 4 - Support Equipment and Facilities - Net increase is due to increases to Avionics Support Equipment (+\$7,550) and decrease to War Consumables (-\$640).

1-27 February 1984

COMPARISON OF FY 1983 FINANCING AS REFLECTED
IN THE FY 1984 BUDGET WITH FY 1983 FINANCING
AS SHOWN IN FY 1985 BUDGET

(In Thousands of Dollars)			
Appropriation	Financing Per FY 1984 Budget	Financing Per FY 1985 Budget	Increase (+) or Decrease (-)
Aircraft Procurement, Army			
Program Requirements, (Total)	2,605,072	2,618,276	13,204
Program Requirements (Service Account)	(2,487,072)	(2,497,872)	(+10,800)
Program Requirements (Reimbursable)	(118,000)	(120,404)	(+ 2,404)
Less:			
Anticipated Reimbursements	-118,000	-120,404	- 2,404
Reprogramming from prior year budget plans		- 15,000	-15,000
Unobligated balance available from prior year to finance new budget plans			
Unobligated balance transferred to other accounts			
Add:			
Unobligated balance transferred to other accounts			
Unobligated balance lapsing			
Unobligated balance available to finance subsequent year budget plans			
BUDGET AUTHORITY	2,487,072	2,482,872	- 4,200
BUDGET AUTHORITY			
Appropriation	2,487,072	2,506,572	19,500
Reduction pursuant to P.L. 97-377		- 17,500	-17,500
Transferred to other accounts (-)		- 6,200	- 6,200
Appropriation (adjusted)	2,487,072	2,482,872	- 4,200

EXPLANATION OF CHANGES IN FINANCING

Net increase to Appropriation Budget Authority is due to reprogramming action to increase support for Aircraft 9WW.

1-23 February 1984

COMPARISON OF FY 1984 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1984 BUDGET WITH
FY 1984 PROGRAM REQUIREMENTS AS SHOWN IN FY 1985 BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	Total Program Requirements Per FY 84 Budget	Program Requirements Per FY 1985 Budget	Increase (+) or Decrease (-)
Aircraft Procurement, Army			
Activity 1 - Aircraft	1,927,200	1,813,700	-113,500
Activity 2 - <u>Modification of Aircraft</u>	627,700	666,530	+ 38,830
Activity 3 - <u>Spares and Repair Parts</u>	643,600	593,600	- 50,000
Activity 4 - <u>Support Equipment and Facilities</u>	242,600	199,418	- 43,182
TOTAL	3,441,100	3,273,248	-167,852

Explanation by Activity

Activity 1 - Aircraft - Net decrease is due to Congressional actions that decreased AH-64 (-\$94,200), UH-60A (-\$29,200), EH-60A (-\$1,900). These reductions were offset by Congressional increase to C-12 (+\$11,800).

Activity 2 - Modification of Aircraft - Net increase is due to Congressional actions that decreased OV-1 by -\$24,470 (-\$18,970 plus undistributed reduction of -\$5,500), RC-12D (undistributed reduction -\$1,800), RV-1 (undistributed reduction -\$3,900), CH-47 (-\$27,000), UH-60A (-\$100), Airborne Avionics (-\$1,300 undistributed reduction). These reductions were offset by Congressional increases to AH-1S of (+\$33,200) and to J-STARS of (+\$5,000). The Army further increased the AH-1S by (+\$19,000) and 9WW by (+\$40,200).

Activity 3 - Spares and Repair Parts - Net decrease due to Congressional actions that decreased Replenishment Spares (-\$50,000).

Activity 4 - Support Equipment and Facilities - Net decrease is due to Congressional actions that transferred Manufacturing Methods and Technology in FY 84 to the Army Research and Development appropriation (-\$9,482), decreased Common Ground Equipment (-\$8,000 undistributed reduction), Flight Simulators (-\$23,500), and Avionics Support Equipment (-\$2,200).

1-29 February 1984

COMPARISON OF FY 1984 FINANCING AS REFLECTED
IN THE FY 1984 BUDGET WITH FY 1984 FINANCING
AS SHOWN IN FY 1985 BUDGET

(In Thousands of Dollars)			
Appropriation	Financing	Financing	Increase (+)
Aircraft Procurement, Army	Per FY 1984	Per FY 1985	or
	Budget	Budget	Decrease (-)
Program Requirements, (Total)	3,543,100	3,357,048	-186,052
Program Requirements (Service Account)	(3,441,100)	(3,273,248)	(-167,852)
Program Requirements (Reimbursable)	(102,000)	(83,800)	(- 18,200)
Less:			
Anticipated reimbursements	-102,000	-83,800	+ 18,200
Reprogramming from prior year budget plans			
Unobligated balance available from prior year to finance new budget plans			
Unobligated balance transferred to other accounts			
Add:			
Unobligated balance transferred to other accounts			
Unobligated balance available to finance subsequent year budget plans			
BUDGET AUTHORITY	3,441,100	3,273,248	-167,852
BUDGET AUTHORITY			
Appropriation	3,441,100	3,214,048	-227,052
Transfers from other accounts (-)		+ 59,200	+ 59,200
Appropriation (Adjusted)	3,441,100	3,273,248	-167,852

EXPLANATION OF CHANGES IN FINANCING

Net decrease to Appropriation Budget Authority is due to Congressional actions taken on the FY 1984 Budget Request.

1-30 February 1984

AIRCRAFT PROCUREMENT, ARMY

Section 4

Status of Aircraft Modification Programs

1-31 February 1984

Status of Aircraft Modification Program
 FY 1982 Modification Programs
 Programs as of 31 October 1983 (\$ Million)

<u>Program</u>	<u>Appropriated</u>	<u>Reprogramming</u>	<u>Total Program Value</u>	<u>Total Obligations</u>	<u>Total Disbursements*</u>
Airplane, Surveillance, OV-1	18.5	+ 4.2	22.7	22.0	12.8
Airplane, Reconnaissance, RC-12D	53.2	+ 2.8	56.0	54.2	25.2
Airplane, Reconnaissance, RV-1	13.0	- 5.2	7.8	7.3	4.1
Helicopter, Attack, AH-1S	65.0	+ .8	65.8	60.9	13.4
Helicopter, Cargo, CH-47	273.0	- 3.6	269.4	258.5	124.3
Airplane, Cargo, C-12	.8	- .6	.2	.2	.1
Helicopter, Electronic, EH-1	4.6	- 1.3	3.3	3.0	1.2
Helicopter, Observation, OH-58	1.8	+ .3	2.1	1.9	1.0
Helicopter, Utility, UH-1	14.3	- 8.4	5.9	5.6	1.6
Airborne Avionics	4.2	+ .3	4.5	4.2	2.3
Aircraft 9WW	-	+ 9.8	9.8	9.8	9.2
Modifications under \$900,000	-	+ 1.9	1.9	1.4	1.0

*Total Disbursements as of 30 November 1983.

1-32 February 1984

Status of Aircraft Modification Program

FY 1983 Modification Programs

Programs as of 31 October 1983 (\$ Million)

<u>Program</u>	<u>Appropriated</u>	<u>Reprogramming</u>	<u>Total Program Value</u>	<u>Total Obligations</u>	<u>Total Disbursements*</u>
Airplane, Surveillance, OV-1	16.9	- 4.5	12.4	10.0	1.7
Airplane, Reconnaissance, RC-12D	8.7	+ .1	8.8	8.4	2.2
Airplane, Reconnaissance, RV-1	9.9	- 6.1	3.8	.2	-
Helicopter, Attack, AH-1S	29.5	- 7.9	21.6	10.6	1.2
Helicopter, Cargo, CH-47	261.3	- .5	260.8	218.4	55.1
Airplane, Cargo, C-12	.4	- .2	.2	.2	-
Helicopter, Electronic, EH-1		+ 2.0	2.0	.8	.2
Helicopter, Observation, OH-58	1.8	- 1.8	-	-	-
Army Helicopter Improvement Program (AHIP)	28.7	- .3	28.4	22.6	.3
Airborne Avionics	5.0	3.7	1.3	-	-
Air Lift 9WW	21.2	+20.0	41.2	19.9	6.6
Modifications under \$900,000	.1	+ 1.4	1.5	.1	-
UH-60A Mods	-	+ 2.0	2.0	.1	.1

*Total Disbursements as of 30 November 1983.

1-33 February 1984

Status of Aircraft Modification Program
 FY 1984 Modification Programs
 Programs as of 31 October 1983 (\$ Million)

<u>Program</u>	<u>Appropriated</u>	<u>Reprogramming</u>	<u>Total Program Value</u>	<u>Total Obligations</u>	<u>Total Disbursements*</u>
Airplane, Surveillance, OV-1	26.4	- 5.5	20.9	-	-
Airplane, Reconnaissance, RC-12D	7.4	- 1.8	5.6	-	-
Airplane, Reconnaissance, RV-1	4.0	- 3.9	.1	-	-
Helicopter, Attack. AH-1S	59.2	-	59.2	-	-
Helicopter, Cargo, CH-47	330.3	-	330.3	-	-
Airplane, Cargo, C-12	.2	-	.2	-	-
Helicopter, Electronic, EH-1	.4	-	.4	-	-
Helicopter, Observation, OH-58	2.6	-	2.6	-	-
Army Helicopter Improvement Program (AHIP)	175.4	-	175.4	-	-
Airborne Avionics	3.7	- 1.	2.4	-	-
Aircraft 9WW	5.0	-	5.0	-	-
Modifications under \$900,000	.2	-	.2	-	-
UH-60A Mods	-	-	-	-	-

*Total Disbursements as of 30 November 1983

1-34 February 1984

AIRCRAFT PROCUREMENT, ARMY

Section 6

Flight Simulator Procurement Summary

1-35 February 1980

FY 85 BUDGET ESTIMATE

FLIGHT SIMULATORS PROCUREMENT PROGRAM

APPROPRIATION: Aircraft Procurement, Army

<u>System</u>	<u>Type</u>	<u>FY 83 & Prior Qty/Amount</u>	<u>FY 84 Qty/Amount</u>	<u>FY 85 Qty/Amount</u>	<u>FY 86 Qty/Amount</u>	<u>FY 87 Qty/Amount</u>	<u>FY 88 Qty/Amount</u>	<u>Cost to Complete Qty/Amount</u>	<u>Total Cost Qty/Amount</u>
UH-1 (SSNAA0980) (2B24)(SSNA09500)	FS	23/59.9	- -	- -	- -	- -	- -	- -	23/ 59.9
CH-47 (2B31)(SSNA09100)	FS	4/42.2	1/ 22.2	6.0	- -	- -	- -	- -	5/ 70.4
AH-1 (2B33)(SSNA09300)	FWS	5/97.3	1/ 23.1	2/ 34.8	- -	- -	- -	- -	8/155.2
UH-60 (2B38)(SSNA09400)	FS	- -	3/ 42.9	4/ 71.0	4/ 70.7	4/72.5	- -	- -	15/257.1
AH-64 (2B40)(SSNA09000)	FWS	- -	-/ 28.9	2/ 63.4	2/ 70.0	-/17.6	- -	- -	4/179.9
GRAND TOTAL		199.4	117.1	175.2	140.7	90.1	- -	- -	722.5

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AIRCRAFT PROCUREMENT, ARMY

Section 8

Production Support and Facilities Projects Summary

1-37 February 1984

AIRCRAFT PROCUREMENT, ARMY

PRODUCTION BASE SUPPORT

(\$ in Millions)

<u>Provision of Industrial Facilities Projects</u>	<u>FY 83</u>	<u>FY 84</u>	<u>FY 85</u>	<u>FY 86</u>
7858183 - Purchase Non-Ind Plant Equipment: CH-47D		3.1	3.1	
7858174 - Rehabilitation of Stratford Army Engine Plant		5.0	6.3	10.0
7858169 - Purchase of CNC Milling Machine: T700 Engine		2.8	0.0	
- Projects Less Than \$1.9 Million	<u> </u>	<u>3.2</u>	<u>1.0</u>	<u>.7</u>
TOTAL	11.3	14.1	10.4	10.7

1-38 February 1984

AIRCRAFT PROCUREMENT, ARMY

PRODUCTION BASE SUPPORT

(\$ in Millions)

<u>Depot Maintenance Plant Equipment Projects</u>	<u>FY 83</u>	<u>FY 84</u>	<u>FY 85</u>	<u>FY 86</u>
7855700 - OH-58D DMPE			4.9	5.6
6868486 - AH-64 DMPE				7.0
7855650 - AH-64 DMPE			46.3	23.7
7855600 - CH-47D DMPE (CCAD)		4.3	7.1	
7856000 - CCAD Black Whirl Tower			3.4	
- Projects Less Than \$1.9 Million	—	.2	.2	—
TOTAL	8.4	4.5	61.9	36.3

1-39 February 1984

AIRCRAFT PROCUREMENT, ARMY

Appendix

Consultants, Studies and Analyses, and Management Support Contracts

Exhibit PB-21, Special Analysis

Narrative Justification

1-40 February 1984

ADMINISTRATIVE AND MANAGEMENT COSTS OF CONTRACTS
(DOLLARS IN THOUSANDS)

APPROPRIATION: ACFT
ELEMENT:

	FY 1983	FY 1984	FY 1985
A. EXPERTS AND CONSULTANTS	-----	-----	-----
1. PERSONNEL APPOINTMENTS	-	-	-
A. EXPERTS	-	-	-
B. CONSULTANTS	-	-	-
(1) FEDERAL ADVISORY COMMITTEE MEMBERS	-	-	-
(2) ALL OTHER APPOINTED CONSULTANTS	-	-	-
2. CONTRACT CONSULTANTS	-	-	-
B. CONTRACT STUDIES & ANALYSES	-----	-----	-----
1. CONSULTING SERVICES	-	-	-
2. OTHER	-	-	-
C. PROFESSIONAL AND MANAGEMENT SERVICES BY CONTRACT	-----	-----	-----
	329	-	188
1. PROGRAM MANAGEMENT SUPPORT	90	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	(90)	-	-
2. POLICY REVIEW AND DEVELOPMENT	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
3. SPECIFICATION DEVELOPMENT	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
4. SYSTEMS ENGINEERING	230	-	100
A. CONSULTING SERVICES	-	-	-
B. OTHER	(230)	-	(100)

1-41 February 1984

APPROPRIATION: ACFT
SUB-ELEMENT:

	FY 1983	FY 1984	FY 1985
5. TECHNOLOGY SHARING/ UTILIZATION	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
6. LOGISTIC SUPPORT SERVICES	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
7. TECHNICAL DATA COLLECTION	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
8. PUBLIC RELATIONS AND ADVERTISING	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
9. OTHER PROFESSIONAL AND MANAGEMENT SERVICES BY CONTRACT	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
D. CONTRACT ENGINEERING TECHNICAL SERVICES (CETS)	-	-	-
1. CONTRACT PLANT SERVICES	-	-	-
2. CONTRACT FIELD SERVICES	-	-	-
3. FIELD SERVICE REPRESENTATIVES	-	-	-
TOTAL	320	-	100

1-42 February 1984

APPROPRIATION: ACFT
SUB-ELEMENT:

	FY 1983	FY 1984	FY 1985
E. SUMMARY			
1. PERSONAL SERVICES CONTRACTS	-	-	-
2. CONTRACT CONSULTING SERVICES	-	-	-
3. OTHER CONTRACT SERVICES	320	-	100
4. PERSONNEL APPOINTMENTS	-	-	-
TOTAL	-----320	-----	-----100

1-43 February 1984

AIRCRAFT PROCUREMENT, ARMY

NARRATIVE JUSTIFICATION
CONSULTANTS, STUDIES AND ANALYSES, AND MANAGEMENT SUPPORT CONTRACTS

SYSTEMS ENGINEERING

This project will provide technical assistance in support of the AH-64 Project Managers Office. The contractor will provide production engineering in the areas of TADS gimbal alignments, first article procedures, analysis and evaluation, and TADS laser boresight alignments.

<u>FY 1983</u>	<u>FY 1984</u>	<u>FY 1985</u>
\$230	0	\$100

PROGRAM MANAGEMENT SUPPORT

This project will evaluate the performance of the AH-64 TADS automatic boresight.

<u>FY 1983</u>	<u>FY 1984</u>	<u>FY 1985</u>
\$90	0	0

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